

602935

2 of 3

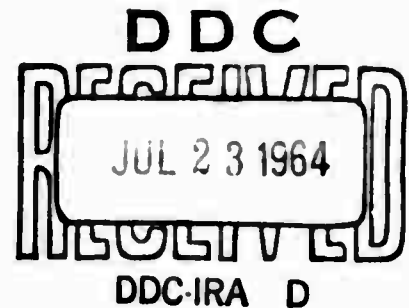
—

HEALTH BUREAU
CANAL ZONE GOVERNMENT

Balboa Heights, Canal Zone

4 p \$1.00 hc
\$0.50 mf

ANNUAL PROGRESS REPORT



Reports Control Symbol MEDDH-288

24 January 1964 - 30 June 1964

Qualified requestors may obtain copies of this report from DDC.

ANNUAL PROGRESS REPORT

Title Page

Project No. * - Investigation of Methods in Treating Maxillo-facial Fractures

Name & Address of Reporting Installation:

Health Bureau, Canal Zone Government,
Gorgas Hospital, Balboa Heights, Canal Zone

Name of Department:

Oral Surgery

Period Covered by the Report:

24 January 1964 - 30 June 1964

Professional Author of the Report:

Ervin E. Hunsuck, Major, DC., USA

Reports Control Symbol: RCS-MEDDH-288

Security Classification:

Unclassified

* Project No. unknown

ABSTRACT

Project No. *

Title: Investigation of Methods
in Treating Maxillo-facial
Fractures

Name & Address of Reporting Installation:

Gorgas Hospital, Health Bureau, Canal Zone Government
Balboa Heights, Canal Zone

Period Covered by the Report:

24 January 1964 - 30 June 1964

Author:

Ervin E. Hunsuck, Major, D.C., USA

Reports Control Symbol: RCS MEDDH - 288

Security Classification:

Unclassified

Summary:

Objective of this investigation is to supplement accepted methods of reduction of maxillo-facial fractures by introducing newer means of fixation. Dogs are to be used to ascertain the feasibility of intraoral open reductions using pre-formed metallic means of fixation and stainless steel wire. When practicable, intraoral open reductions will be used on human patients. There will be histologic study of the physiologic response of osseous structures to the immobilization appliances.

Although there has been delay in the obtaining of equipment and animals, it is anticipated that investigation using animals will begin the latter part of July, 1964. Thus far, the project has been confined to the clinical aspect, using three patients who have been successfully treated by revised methods of fixation. One attempt to use a pre-formed metallic means of fixation in a fractured mandible failed and a new design will be tested. The methods utilized in the three successful cases could be performed in a mass casualty situation without the benefit of an operation room and ancillary personnel.

* Unknown

BODY OF REPORT

Project No. *

Title: Investigation of Methods
in Treating Maxillo-facial
Fractures

Description:

1. Investigate methods of reduction of maxillo-facial fractures by supplementing the accepted methods used currently and by introducing newer means of fixation.
2. Utilization of animals (dogs) in this study to ascertain feasibility of intraoral open reductions using pre-formed metallic means of fixation and stainless steel wire.
3. Where and when practicable to utilize intra-oral reductions on actual patients.
4. Histologic study of physiologic response of osseous structures to the immobilization appliances.
5. Compilation of data and results of investigation to determine if methods and techniques employed would be advantageous in treatment of maxillo-facial casualties.

Progress:

Due to the incidents occurring in the Canal Zone in January, there has been a delay in obtaining equipment and animals necessary for the project. The equipment has been ordered and some has arrived. Animals may be obtained through the Medical School of Panama after the 15th of July. At this time, investigation utilizing the animals will begin.

Thus far, this project has been confined to the clinical aspect utilizing actual patients where applicable. Three patients have been successfully treated by newer and revised methods of fixation. An attempt to use a pre-formed metallic means of fixation in a fractured mandible failed and a new design has been made which will be utilized in the future.

Summary and Conclusions:

The methods utilized in the three cases that were successful could be performed in a mass casualty situation without the benefit of an operating room and required ancillary personnel. Detailed data including illustration and photographs will be included in the final report.

List of Publications:

None

* Unknown